

METHOD FOR SELECTIVE PHOTSENSITIZATION OF OPTICAL FIBERS

ABSTRACT

5 A method for increasing the photosensitivity of a selected portion of an optical fiber
and for producing a grating in the selected portion of an optical fiber. The method includes
the step of placing the selected portion of the optical fiber in a hydrogen containing
atmosphere. The volume of the hydrogen-containing atmosphere immediately surrounding
only the selected portion of the optical fiber is heated to a temperature of at least 250°C.
10 Only the selected portion of the optical fiber is exposed to the heated volume of the
hydrogen-containing atmosphere at a temperature of at least 250°C for a predetermined
time.